

Project Name: Roadside Inspection & Citation Issuing System

OCIO Project #:

Department: Air Resources Board

Revision Date: 10/14/10

Concept Statement

Description

Brief description of the proposed project:

The ARB proposes to implement an updated and more fully automated roadside inspection citation and payment process to comply with programs and regulations associated with Drayage Trucks, Solid Waste Collection Vehicle, Transportation Refrigeration Units (TRU), Cargo Handling, Public Agency and Utility vehicles, etc. The system shall provide required flexibility and scalability to meet current and future program needs as regulations change.

Need Statement

High Level Functional Requirements:

Provide for centralized data and application to support inspection and citation tracking for the Heavy-Duty Vehicle Enforcement Programs. The application and database will track each inspection, including location and results (pass/fail). For those inspections that result in a citation or notice of violation, the application will print the citations and track them for citation status, history, payments and clearing documents, delinquent citations, payment plans, and provide bi-annual and annual reports, as well as statistics for research and enforcement development.

What is Driving This Need?

Current systems and processes associated with Roadside Citation and Inspection Process are outdated, inefficient, and do not adequately support the needs of heavy duty vehicle enforcement program. Current equipment and software can not accomodate enforcement of newly mandated Airborne Toxic Control Measures (ATCM) necessitating a replacement system.

Risk to the Organization if This Work is Not Done:

1. ARB enforcement processes will become increasingly manual and require inordinate amounts of staff time.
2. ARB may not be able to identify non-compliance and enforce Heavy Duty Diesel Regulations and various ATCM.
3. ARB may not be able to effectively share critical system data with internal and external entitites.

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Benefit Statement

Intangible Benefits

Process Improvements (describe the nature of the process improvement):

The processes required for the tracking and reporting of compliance will be automated, requiring less staff time and thereby freeing up investigators to become more efficient in performing their duties. ARB will be able to better review and act upon more comprehensive compliance history of regulatory entities. This will result in better enforcement of Heavy Duty Vehicle Regulations and ATCMs and improved air quality.

Other Intangible Benefits:

Ease and convenience of use, using a web-based system.

Tangible Benefits

Revenue Generation (describe how revenue will be generated):

Increased level of citations and penalties from more effective enforcement processes. The details will be determined in the FSR.

Cost Savings (describe how cost will be reduced):

ARB's costs (e.g. Staff manual processing time) would be lower with the proposed system than if it had to manually conduct the processes. The details will be determined in the FSR.

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Cost Avoidance (describe the cost and how avoided):

N/A

Risk Avoidance (describe the risk and how avoided):


Reduce risk and avoid associated costs for:

1. ARB processes becoming increasingly manual and requiring inordinate amounts of staff time.
2. Not identifying and enforcing regulatory non-compliance.
3. Lost documentation and inability to collect on potential penalties and citations.

Improved Services:

Regulated entities will experience greater convenience from streamlined processes.
Increased effective enforcement results in improved air quality and public health.

Consistency

"No" Responses 		Rationale	Action Required
Enterprise Architecture	Yes		
Business Plan	Yes		
Strategic Plan	Yes		

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Impact to Other Entities

Nature of Impact to Other Entities

Entity: California Environmental Protection Agency

Describe the nature of the impact:

The project will support Cal/EPA's efforts to improve the environment generally and specifically to improve air quality .

Entity: California Resources Agency

Describe the nature of the impact:

The project will improve air quality which negatively impacts animals, plants and other organisms found in the natural environment for which the Resources Agency and its constituent departments have responsibility.

Entity:

Describe the nature of the impact:

Entity:

Describe the nature of the impact:

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Solution Alternatives

Alternative 1:

Purchase of Commercial-Off-The-Shelf (COTS) Software

Technical Considerations for Alternative 1:

After careful review and consideration, the ARB has concluded that there are no known commercial packages that would meet the needs and requirements of the State of California and the ARB without extensive, and expensive, modifications and enhancements.

ROM Cost: \$500,000 to \$1,000,000

Note: high end of range must not exceed 200% of low end of range

Alternative 2:

Acquire and modify a solution from another state

Technical Considerations for Alternative 2:

California has long been a world leader in combating air pollution emitted from motor vehicles and other mobile sources. Because of the state's severe air quality problems, California is the only state authorized under the Federal Clean Air Act to set its own motor source emissions and fuels standards. As a result, the ARB has concluded that no other states have implemented a solution that could meet the critical functionality of the existing HDVIP Citation Tracking System and requirements of Heavy Duty Vehicle Inspection program without extensive modifications and enhancements.

ROM Cost: N/A to N/A

Note: high end of range must not exceed 200% of low end of range

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Alternative 3:

Develop a Roadside Inspection & Citation Issuing System

Technical Considerations for Alternative 3:

A contractor will develop a Roadside Inspection & Citation Issuing System. The application will be implemented using technology consistent with ARB's current web application and development platforms.

ROM Cost: \$475,000 to \$850,000

Note: high end of range must not exceed 200% of low end of range

Recommendation

Comparison:

Alternative 1	ROM Cost			Risk
Purchase of COTS Software	\$500,000	-	\$1,000,000	<i>Risk of cost and schedule overruns</i>
Alternative 2	ROM Cost			Risk
Acquire/modify another State's solution	N/A	-	N/A	<i>N/A</i>
Alternative 3	ROM Cost			Risk
Develop a RICIS system	\$475,000	-	\$850,000	<i>Some risk that developer be unable to develop/deliver timely</i>

Conclusions:

1	No known commercial packages that would meet the needs and requirements of the project
2	No other states have implemented a solution that could meet the requirements of the project
3	Contractor developed Inspection/Citation System would provided the most cost effective and timely response to the project needs
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Recommendation:

The development of the RICIS system is consistent with the needs and objectives of the ARB and this project. The evaluation criteria used in assessing this and other solution alternatives are: 1. Cost Effectiveness - the proposed solution is the least costly solution that meets the needs and objectives available to the ARB and can be feasibly implemented; and 2. Timeliness - the ARB considered the length of time it would take to implement the proposed solution and the other alternative considered. Under this criterion, the proposed solution is deemed most likely to be successfully developed and implemented in the required timeframe.

Project Approach *(if known)*

System Complexity:			System Business Hours: (e.g., 24x7, 9am-5pm) :	
Architecture	<input type="checkbox"/> Mainframe	<input type="checkbox"/> Client Server	<input checked="" type="checkbox"/> Web Based	Num. of New Databases:
Technology	<input type="checkbox"/> New	<input type="checkbox"/> New to Staff	<input type="checkbox"/> In-House Experience	Interfaces:
Implementation	<input type="checkbox"/> Central Site	<input type="checkbox"/> Phased Roll-out		Num. of Sites:
M & O Support	<input type="checkbox"/> Contractor	<input type="checkbox"/> Data Center	<input type="checkbox"/> Project	<input type="checkbox"/> In House
Procurement Approach: The ARB anticipates contracting with an entity for the development, testing, and implementation and training assistance with the CaRFG Reporting and Tracking system.				Number of Procurements:
Open Procurement?		Delegated Procurement?		
Scope of Contract	<input checked="" type="checkbox"/> Development <input checked="" type="checkbox"/> Implementation <input type="checkbox"/> M & O <input type="checkbox"/> Other:			
Anticipated Length of Contract:		Years / extensions for years		